

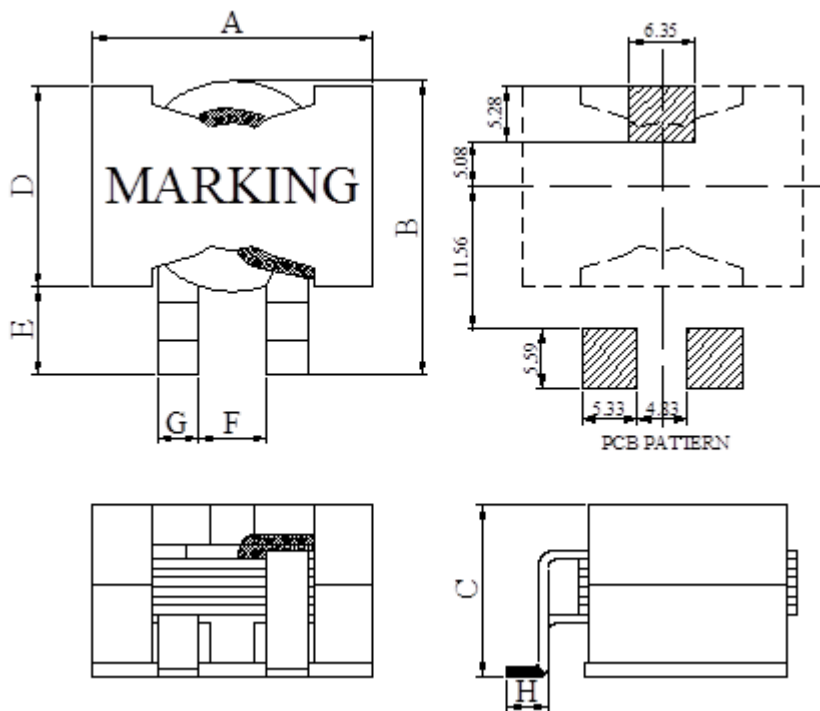
1. Part No. Expression:

SPQQ27141R5KZF

(a) (b) (c) (d)(e)(f)

- a) Series Code
- b) Dimension Code
- c) Inductance Code
- d) Tolerance Code
- e) Internal Code
- f) Packaging Code

2. Configuration & Dimensions:



Height C
 SPQQ2715-Z- 15.36 Max
 SPQQ2715-X- 15.36 Max
 SPQQ2718-Z- 17.78 Max

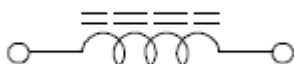
Marking:

27□□1R5K□
 SPW YYWW

Unit: mm

A	B	D	E	F	G	H
27.90 Max	27.94 Max	19.80 Max	6.90 Ref	6.63±0.51	3.80 Ref	3.80 Min

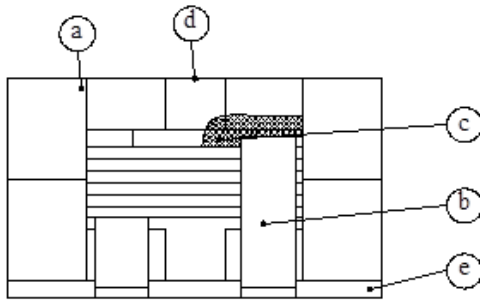
3. Schematic:



NOTE: Specifications subject to change without notice. Please check our website for latest information.



4. Material List:



a	Core
b	Wire
c	Adhesive
d	Ink
e	Base

5. General Specification:

- (a) Storage Temp.: -40°C - 125°C
- (b) Operating Temp. : -40°C to +85°C with (40°C rise) I_{rms} current, +85°C to +125°C with derated current
- (c) Humidity Range : 60% RH
- (d) Storage condition (component in its packaging)
 - i) Temperature: Less than 40°C
 - ii) Humidity : 60% RH

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6. Electrical Characteristics:

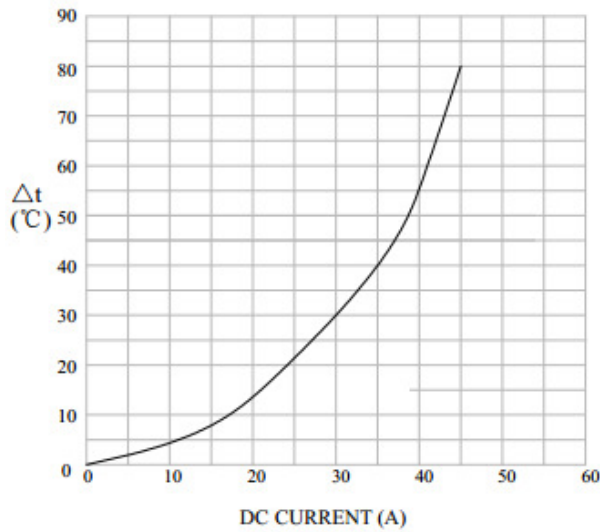
Part No.:	Inductance (uH) @500KHz/0.1V	I rms(A)		I sat(A)			DCR (mΩ) Max.	SRF (MHz) Typ.
		20°C Typ.	40°C Typ.	10% Typ.	20% Typ.	30% Typ.		
SPQQ27151R5KZF	1.5±10%	20.0	30.0	100	>100	>100	1.65	60.0
SPQQ27152R2KXF	2.2±10%	20.0	30.0	100	>100	>100	2.05	40.0
SPQQ27152R2KZF	2.2±10%	20.0	30.0	82.0	84.0	84.8	1.65	50.0
SPQQ27183R3KZF	3.3±10%	20.0	28.0	91.0	92.5	93.6	2.86	40.0
SPQQ27153R3KXF	3.3±10%	20.0	30.0	62.0	66.9	68.4	2.05	30.0
SPQQ27153R3KZF	3.3±10%	20.0	30.0	48.0	54.0	57.0	1.65	40.0
SPQQ27184R7KZF	4.7±10%	20.0	28.0	59.0	61.2	62.4	2.86	30.0
SPQQ27154R7KXF	4.7±10%	20.0	30.0	42.0	48.0	50.1	2.05	25.0
SPQQ27154R7KZF	4.7±10%	20.0	30.0	33.0	36.9	39.0	1.65	30.0
SPQQ27186R8KZF	6.8±10%	20.0	28.0	42.0	45.0	45.9	2.86	25.0
SPQQ27156R8KXF	6.8±10%	20.0	30.0	30.0	34.5	36.2	2.05	20.0
SPQQ27156R8KZF	6.8±10%	20.0	30.0	22.0	26.0	27.8	1.65	25.0
SPQQ2718100KZF	10±10%	20.0	28.0	28.0	31.2	32.1	2.86	20.0
SPQQ2715100KXF	10±10%	20.0	30.0	18.0	21.5	23.4	2.05	15.0
SPQQ2715100KZF	10±10%	20.0	30.0	13.0	16.2	17.6	1.65	20.0
SPQQ2718150KZF	15±10%	20.0	28.0	18.0	21.2	21.9	2.86	16.0
SPQQ2715150KXF	15±10%	20.0	30.0	11.5	14.0	15.2	2.05	12.0
SPQQ2715150KZF	15±10%	20.0	30.0	7.50	9.80	11.0	1.65	15.0
SPQQ2718220KZF	22±10%	20.0	28.0	12.0	14.0	15.0	2.86	15.0
SPQQ2715220KXF	22±10%	20.0	30.0	7.00	8.60	9.60	2.05	10.0
SPQQ2715220KZF	22±10%	20.0	30.0	4.50	6.00	6.80	1.65	10.0
SPQQ2718330KZF	33±10%	20.0	28.0	7.00	8.70	9.60	2.86	10.0
SPQQ2715330KXF	33±10%	20.0	30.0	4.00	5.10	5.90	2.05	8.0
SPQQ2715330KZF	33±10%	20.0	30.0	2.00	2.60	3.30	1.65	7.0

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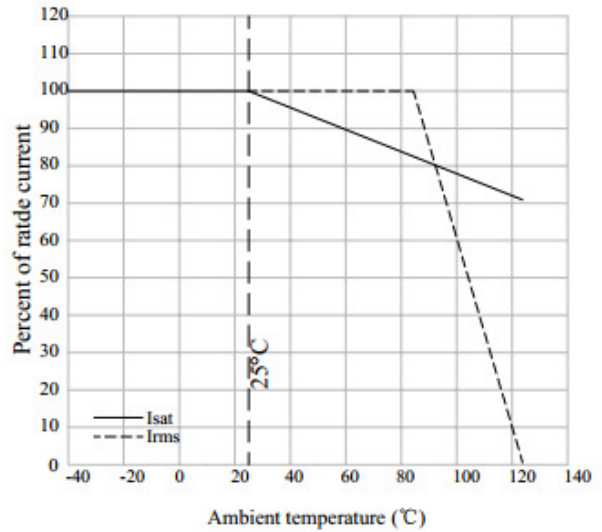


7. Characteristics Curves:

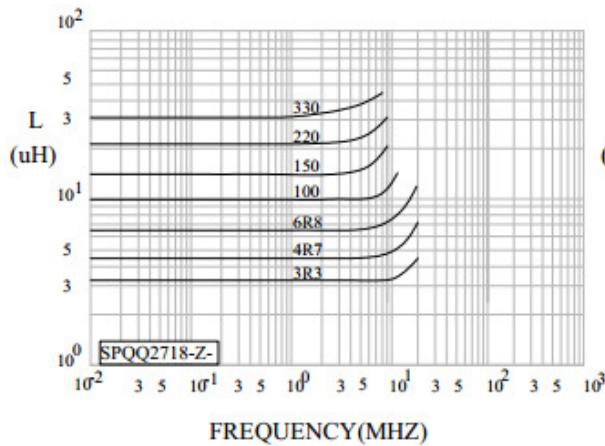
@ TEMP. RISE VS. DC CURRENT RESPONSE CURVE



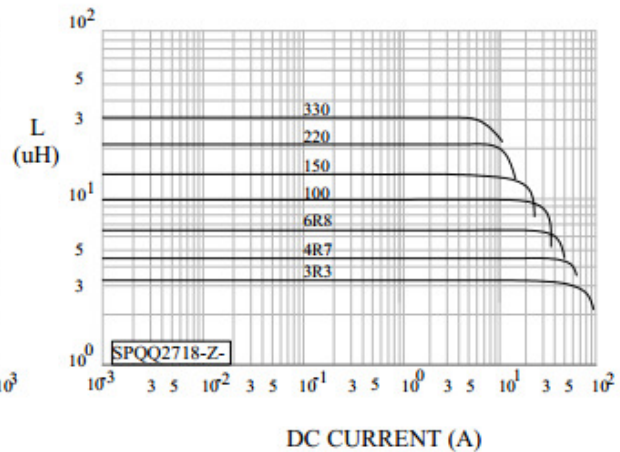
@ CURRENT DERATING RESPONSE CURVE



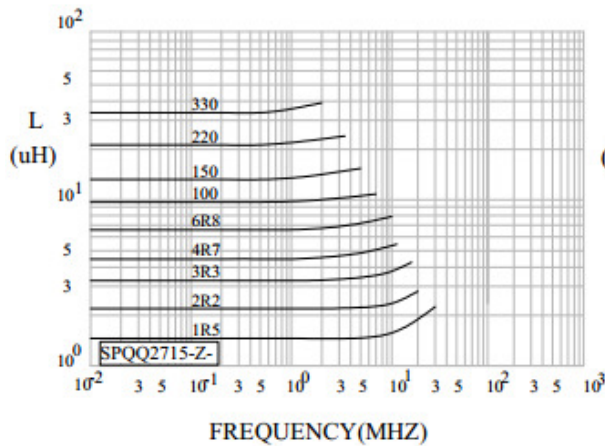
@ INDUCTANCE VS. FREQUENCY RESPONSE CURVE



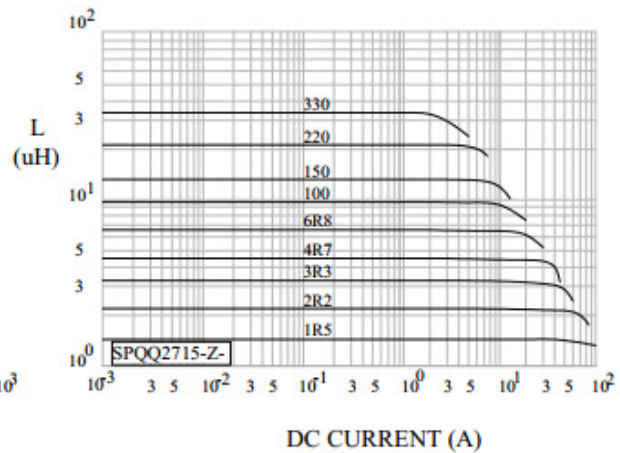
@ INDUCTANCE VS. DC SUPERPOSITION RESPONSE CURVE



@ INDUCTANCE VS. FREQUENCY RESPONSE CURVE



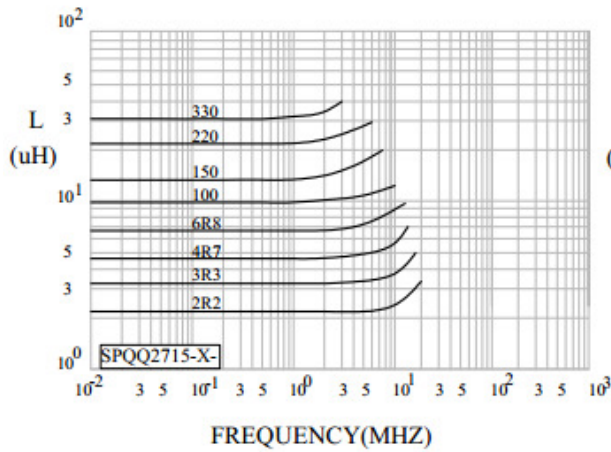
@ INDUCTANCE VS. DC SUPERPOSITION RESPONSE CURVE



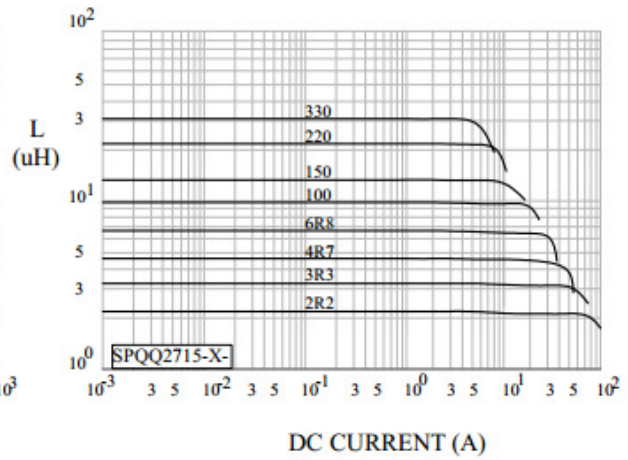
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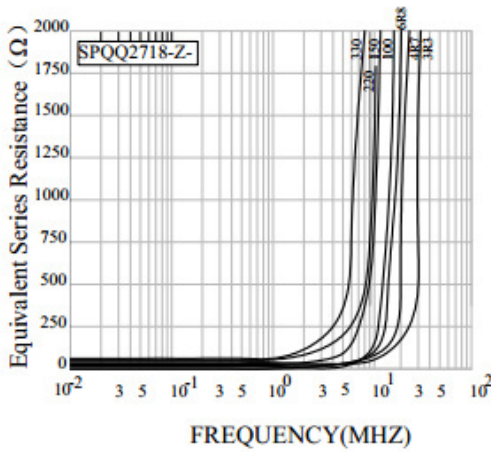
@ INDUCTANCE VS. FREQUENCY RESPONSE CURVE



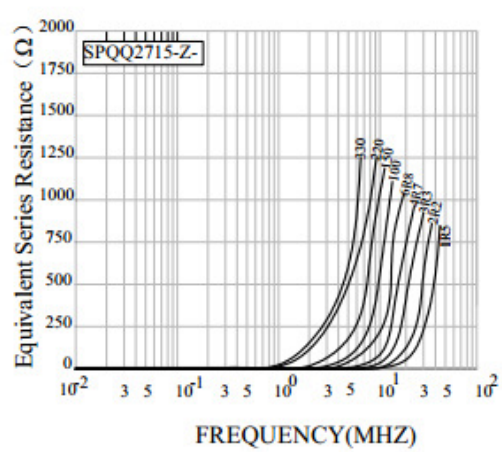
@ INDUCTANCE VS. DC SUPERPOSITION RESPONSE CURVE



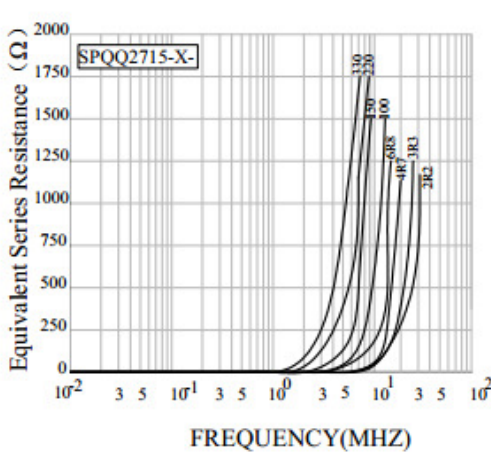
@ ESR VS. FREQUENCY RESPONSE CURVE



@ ESR VS. FREQUENCY RESPONSE CURVE



@ ESR VS. FREQUENCY RESPONSE CURVE



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